

ABSTRACT

A hyperspectral scene generator generates a projected linear scene where the spectral characteristics at each location that forms the scene are dynamically and arbitrarily controllable. The generator can be controlled to generate a projected linear scene including a targeted object and arbitrary spectral content that duplicates the spectral content of real targets and backgrounds to facilitate testing of target identification software of a hyperspectral imaging system in view of expected actual field operation of the sensor of the imaging system.